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(54) Title: ANTICARIOGENIC PROTEINS & PEPTIDES & SACCHARIDES

(57) Abstract: This Invention discloses new proteins, peptides and saccharides that have anticariogenic capabilities and that are characterized by the presence of one or more components that have the ability to form a complex with calcium ions: such as epsilon-polylysine that is conjugated with one or more bisphosphonyl-, biscalboxyl-, or 3-hydroxy-phthalate-groups or conjugated with casein phosphopeptide, phosvitin or with partially hydrolyzed phosvitin; such as partially hydrolyzed chitosan that is conjugated with one or more bisphosphonyl groups, casein phosphopeptide or with phosvitin or partially hydrolyzed phosvitin; such as bisphosphonylated and biscalboxylated proteins with at least 40% of amino acids consisting of lysine and a molecular weight of above 2 kD and such as polymerized casein phosphopeptide and partially hydrolyzed phosvitin. The products can be used in formulations to protect teeth and to treat the oral cavity. The Invention encompasses competent protein, peptide and saccharide structures, as well as production procedures and application conditions.

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